

FORM PTO-449 (Modified)

ATTY. DOCKET NO.
24743-2302USSERIAL NO.
09/171,625LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTAPPLICANT
KÖSTER et al.FILING DATE
July 2, 1999GROUP
~~1627~~ 1639

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AUG 20 2002

TECH CENTER 1600/2900

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	Ref. Code	DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
PP	A	5	6	1	4	6	2	2	03/25/97	Pfleiderer et al.	536	25.33	08/24/95
	B	5	6	5	2	3	5	8	07/29/97	Pfleiderer et al.	536	25.3	11/03/94
	C	5	7	6	3	5	9	9	06/09/98	Pfleiderer et al.	536	55.3	08/09/96

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	Ref. Code	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No	
NONE														

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PP	D	Amarnath et al., "Chemical Synthesis of Oligonucleotides", <i>Chemical Reviews</i> , <u>77</u> (2):183-217 (1977)
	E	Caruthers et al., "Studies on Nucleotide Chemistry 15, Synthesis of Oligodeoxynucleotides Using Amidine Protected Nucleosides", <i>Nucleosides & Nucleotides</i> , <u>4</u> (1&2):95-105 (1985)
	F	Dreef-Tramp et al., "A New Protected Acyl Protecting Group for Exocyclic Amino Functions of Nucleobases", <i>Tetrahedron Letters</i> , <u>31</u> (3):427-430 (1990)
	G	Froehler et al., "Dialkylformamidines: depurination resistant N ₆ -protecting group for deoxyadenosine", <i>Nucleic Acids Res</i> , <u>11</u> (22):8031-8036 (1983)
	H	Gioeli et al., "The Fluoren-9-ylmethoxycarbonyl Group for the Protection of Hydroxy-groups; Its Application in the Synthesis of an Octathymidylic Acid", <i>J Chem Soc Chem Commun</i> , pp. 672-674 (1982)
	I	Hayakawa et al., "The Allylic Protection Method in Solid-Phase Oligonucleotide Synthesis. An Efficient Preparation of Solid-Anchored DNA Oligomers", <i>J Am Chem Soc</i> , <u>112</u> :1691-1696 (1990)
	J	Kamimura et al., "Diphenylcarbamoyl and Propionyl Groups: A New Combination of Protecting Groups for the Guanine Residue", <i>Tetrahedron Letters</i> , <u>24</u> (27):2775-2778 (1983)
	K	Kharasch et al., "Derivatives of Sulfenic Acids. X. The Reaction of 2,4-Dinitrobenzenesulfonyl Chloride with Alcohols", <i>J Am Chem Soc</i> , <u>75</u> :2658-2660 (1952)

EXAMINER

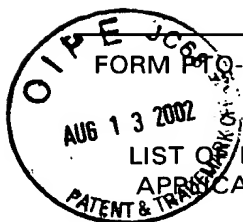
P. Ponnathur

DATE CONSIDERED

12/2/02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **A COMBINATORIAL PROTECTING GROUP STRATEGY FOR MULTIFUNCTIONAL MOLECULES**



FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
24743-2302USSERIAL NO.
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

pp	L	Köster <i>et al.</i> , "N-Acyl Protecting Groups for Deoxynucleosides", <i>Tetrahedron</i> , <u>37</u> :363-369 (1981)
	M	Letsinger <i>et al.</i> , "Protecting Groups for Nucleosides Used in Synthesizing Oligonucleotides", <i>J Am Chem Soc</i> , <u>91</u> (12):3356-3359 (1969)
	N	McBride <i>et al.</i> , "N ₆ (N-Methyl-2-Pyrrolidine Amidine)Deoxyadenosine - A New Deoxynucleoside Protecting Group", <i>Tetrahedron Letters</i> , <u>24</u> (29):2953-2956 (1983)
	O	Ogilvie <i>et al.</i> , "N-Levulination of Nucleosides", <i>Tetrahedron Letters</i> , <u>23</u> (26):2615-2618 (1982)
	P	Rasmussen <i>et al.</i> , "The Synthesis of 3-(2'Deoxy-D-ribofuranosyl)adenine. Application of a New Protecting Group, Pivaloyloxymethyl (Pom)", <i>J Am Chem Soc</i> , <u>89</u> (21):5439-5445 (1967)
	Q	Reese, C.B., <u>Tetrahedron Report Number 56</u> , "The Chemical Synthesis of Oligo- and Poly-Nucleotides by the Phosphotriester Approach", <i>Tetrahedron</i> , <u>34</u> :3142-3179 (1978)
	R	Sonveaux, E., "The Organic Chemistry Underlying DNA Synthesis", <i>Bioorganic Chem</i> , <u>14</u> :274-325 (1986)
	S	Ti <i>et al.</i> , "Transient Protection: Efficient One-Flask Syntheses of Protected Deoxynucleosides", <i>J Am Chem Soc</i> , <u>104</u> :1316-1319 (1982)
	T	Vinogradov <i>et al.</i> , "Synthesis and Physicochemical Studies of Partially Phosphate-Methylated Oligodeoxyribonucleotides", <i>Tetrahedron Letters</i> , <u>34</u> (37):5899-5902 (1993)
	U	Vu <i>et al.</i> , "Fast Oligonucleotide Deprotection Phosphoramidite Chemistry for DNA Synthesis", <i>Tetrahedron Letters</i> , <u>50</u> :7269-7272 (1990)
✓	V	Watkins <i>et al.</i> , "Synthesis of Oligodeoxyribonucleotides Using <i>N</i> -Benzyloxycarbonyl-Blocked Nucleosides", <i>J Am Chem</i> , <u>104</u> :5702-5708 (1982)

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